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CLAIMS

- A hair treatment composition comprising:
 - (a) an anionic surfactant;
 - (b) an amphoteric or zwitterionic surfactant;
 - (c) an alkyl amphoalkanoate surfactant; and
 - (d) an anti-dandruff agent that is in solution in the composition.
- 2. Composition as claimed in Claim 1, wherein the anionic surfactant is selected from sodium lauryl sulphate, sodium lauryl ether sulphate(n)EO, (where n ranges from 1 to 3), ammonium lauryl sulphate and ammonium lauryl ether sulphate(n)EO, (where n ranges from 1 to 3).
 - 3. Composition as claimed in Claim 1 or Claim 2 wherein the anionic surfactant is present in an amount of from 10 to 20 % by weight of the composition.
- 20 4. Composition as claimed any one of the preceding claims wherein the amphoteric or zwitterionic surfactant is a betaine.
- 5. Composition as claimed any one of the preceding claims
 wherein the amphoteric or zwitterionic surfactant is
 cocamidopropylbetaine.
- 6. Composition as claimed in any one of the preceding claims wherein the amphoteric or zwitterionic surfactant is present in an amount of from 0.5 to 5% by weight of the composition.

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7. Composition as claimed in any one of the preceding claims wherein the alkyl amphoalkanoate surfactant is a $(C_6 \text{ to } C_{18} \text{ alkyl}) \text{ ampho} (C_1 \text{ to } C_2 \text{ alkanoate})$.

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8. Composition as claimed in any one of the preceding claims wherein the alkyl amphoalkanoate surfactant is sodium cocoamphoacetate or sodium lauryl cocoamphoacetate.

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9. Composition as claimed in any one of the preceding claims wherein the alkyl amphoalkanoate surfactant is present in the composition in an amount of from 0.5 to 5% by weight of the composition.

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- 10. Composition as claimed in any one of the preceding claims, wherein the anti-dandruff agent is climbazole.
- 11. Composition as claimed in any one of the preceding
 20 claims, wherein the anti-dandruff agent is present in
 the composition in an amount of from 0.1 to 5% by
 weight.
- 12. Composition as claimed in any one of the preceding claims, wherein the composition comprises a cationic polymer in an amount of 0.01 to 5% by weight.
 - 13. Composition as claimed in any one of the preceding claims which has a pH in the range of from 5 to 8.



- 14. Composition as claimed in any one of the preceding . claims which has a pH in the range of from 6 to 7.
- 15. Composition as claimed in any one of the preceding claims which is a shampoo.
 - 16. A method of treating hair which comprises applying to the hair a composition of any one of Claims 1 to 15.
- 10 17. The use of a surfactant mixture comprising: an anionic surfactant; an amphoteric or zwitterionic surfactant; and an alkyl amphoalkanoate surfactant to increase the mildness of a hair treatment composition comprising an anti-dandruff agent that is in solution in the composition.
 - 18. The use of a surfactant mixture comprising: an anionic surfactant; an amphoteric or zwitterionic surfactant; and an alkyl amphoalkanoate surfactant to increase the deposition of an anti-dandruff agent from a hair treatment composition.
 - 19. Use as claimed in Claim 17 or Claim 18, wherein the anti-dandruff agent is climbazole.

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